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2182

DATE MAILED: 07/09/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

84654 7590 07/09/2009 COCHRAN FREUND & YOUNG LLC LSI CORPORATION

2026 CARIBOU DRIVE SUITE 201

FORT COLLINS, CO 80525

EXAMINER						
VIDWAN, JASJIT S						
ART UNIT	PAPER NUMBER					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,419	04/01/2004	Judy M. Gehman	LSI.165US01 (03-2477)	1307

TITLE OF INVENTION: SYSTEM AND METHOD FOR IMPLEMENTING MULTIPLE INSTANTIATED CONFIGURABLE PERIPHERALS IN A CIRCUIT DESIGN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THE APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off ions	for transm ng the Pat nerwise in	ent, advance or Block 1, by (a	JE FEE and PUBLICA' rders and notification of a) specifying a new corr	TION f main respon	FEE (if requir ntenance fees w ndence address;	red). B ill be i and/or	Hocks 1 through 5 st mailed to the current (b) indicating a sepa	corres rate "I	ne completed where pondence address as EE ADDRESS" for
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SUITE 201 FORT COLLINS	S. CO 80525									(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	OR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/817,419	04/01/2004			Judy M. Gehman			LSI.1	65US01 (03-2477)		1307
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nonprovisional	NO		\$1510	\$300		\$0		\$1810		10/09/2009
EXAM	INER	AF	KT UNIT	CLASS-SUBCLASS	7					
	VIDWAN, JASJIT S			710-008000	_					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident in 37 CFR 3.11. Comp	inge of Co " Indicationed. Use of A TO BE I	rrespondence on form f a Customer PRINTED ON	(I) the names of up or agents OR, alterna (2) the name of a sin registered attorney or 2 registered patent at listed, no name will t THE PATENT (print or t data will appear on the T a substitute for filing a (B) RESIDENCE: (CTI	ntively ngle fir or agen ttorney be prin type) paten an assi	rm (having as a it) and the name ys or agents. If r ated.	members of up no nam	er a 2	ocume	at has been filed for
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NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will ites Patent	I not be accepted and Trademark	d from anyone other than Office.	n the a	applicant; a regis	stered a	ttorney or agent; or th	e assig	nee or other party in
Authorized Signature						Date				
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This collection of informan application. Confident submitting the completed this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DC 13-1450.	ER 1.311. U.S.C. 12 USPTO. rden, shou O NOT SE	The informatic 22 and 37 CFR Time will vary ild be sent to th ND FEES OR 6	on is required to obtain on 1.14. This collection is endepending upon the independent of the complete of the c	or retai estima dividua icer, U TO TI	in a benefit by the ted to take 12 n al case. Any con U.S. Patent and ' HIS ADDRESS.	ne publ ninutes mment: Fradem . SENI	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Depo O TO: Commissioner	by the g gathe ne you artment for Pate	USPTO to process) ering, preparing, and require to complete to Commerce, P.O. ents, P.O. Box 1450,

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84654	7590	07/09/2009	EXAMINER				
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LSI CORPORATION				ART UNIT	PAPER NUMBER		
	2026 CARIBOU DRIVE						
SUITE 201			DAME MARKET OF COLOR				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 596 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 596 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/817,419 GEHMAN ET AL. Notice of Allowability Examiner Art Unit JASJITS VIDWAN 2182 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 04/20/09. The allowed claim(s) is/are 1-7 & 16-20. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /J. S. V./

Examiner, Art Unit 2182

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Application/Control Number: 10/817,419

Art Unit: 2182

DETAILED ACTION

Allowable Subject Matter

- Claims 1-7, 16-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach a reusable software block comprising a device hardware abstract layer adapted to configured multiple instantiations of a peripheral device within an integrated circuit, the hardwahey re abstraction software layer defining, relative to a variable base address received as a parameter passed to the device hardware abstraction software layer, offset values for registers of the peripheral device and defining a data structure for the peripheral device that accesses the registers of the peripheral device relative to the variable base address and a platform hardware abstraction software layer defining an address map of the integrated circuit comprised of a plurality of base addresses, the platform hardware abstraction software layer adapted to configure each instantiation of the peripheral device via calls to the device hardware abstraction software layer, the calls to the device hardware abstraction software layer each passing a one of the plurality of base addresses that correspond to an instantiation of the peripheral device to the device hardware abstraction software layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASJIT S. VIDWAN whose telephone number is (571)272-7936. The examiner can normally be reached on 8am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on 571.272.6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Application/Control Number: 10/817,419 Page 3

Art Unit: 2182

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

/J. S. V./

Examiner, Art Unit 2182

/Tariq Hafiz/

Supervisory Patent Examiner, Art Unit 2182